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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,686	02/10/2004	Tohru Nakagawa	100725-00118	8588
4372	7590 05/15/2006		EXAMINER	
ARENT FOX PLLC 1050 CONNECTICUT AVENUE, N.W.			BINDA, GREGORY JOHN	
SUITE 400	ECTICUT AVENUE, N. W	'.	ART UNIT	PAPER NUMBER
WASHING	TON, DC 20036		3679	
			DATE MAILED: 05/15/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
Office Action Summary		10/774,686	NAKAGAWA ET AL.			
		Examiner	Art Unit			
		Greg Binda	3679			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHOR WHICHE - Extension: after SIX (- If NO perio - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY VER IS LONGER, FROM THE MAILING DASS of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Od for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ Re	sponsive to communication(s) filed on 13 Ap					
,	This action is FINAL . 2b)⊠ This action is non-final.					
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims		•			
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	aim(s) <u>1-4</u> is/are pending in the application. Of the above claim(s) is/are withdraw aim(s) is/are allowed. aim(s) <u>1-4</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or					
Application	Papers					
10)⊠ The Apı Re	e specification is objected to by the Examiner of drawing(s) filed on <i>various</i> is/are: a) acception and request that any objection to the oplacement drawing sheet(s) including the correction of the control of the co	cepted or b) \boxtimes objected to by the drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority und	er 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		_				
· ==	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Di				
3) Information	on Disclosure Statement(s) (PTO-1449 or PTO/SB/08) (s)/Mail Date		Patent Application (PTO-152)			

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the drawings must show a fixed-type constant velocity joint capable of providing an angle α (said angle is defined in claim 1) that is no more than ten degrees. The angle α shown in Fig. 2A is 30 degrees. Although the drawings do not need to be drawn to scale, they cannot be misleading. In order to keep the angle to less than ten degrees, the structure of the inner and/or outer joint members would have to be significantly altered from that shown in the drawings. That alteration must be shown in the drawings in order to show the claimed invention.
- 3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

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application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1, lines 13 & 14 recites the limitation, "an angle of displacement between the inner and outer joint members during which torque is transmittable is at a maximum". It is not clear if this limitation is referring to the maximum angle at which "torque can be transmitted" argued at page 6, line 14 of in the amendment filed April 13, 2006, or is "an angle of displacement" at which maximum torque is transmitted. In other words, its not clear what is maximized – the torque, the angle or something else.

Allowable Subject Matter

5. Claims 1-4 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action. Allowable material is indicated because the prior art does not show or suggest a fixed type constant velocity joint comprising all the limitations of the claims.

Fukumura shows in Fig. 15 a constant velocity joint with an angle $\theta/2$ (that equates to instant angle α) that appears to be around ten degrees, but shows the grooved surfaces of the

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inner and outer joint members 1 & 4 as cylindrical, not spherical. Nor does it appear it would be obvious to modify the joint members so that the surfaces were spherical. Instead, such a modification would appear to destroy the joint because it would eliminate the joint's plunge capability disclosed at col. 1, lines 9-19.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Binda whose telephone number is (571) 272-7077. The examiner can normally be reached on M-F 9:30 am to 7:00 pm with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Greg Binda Primary Examiner

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